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What is claimed is;

- A radio-conductive material comprising alcoholsoluble nylon and inorganic material having radiation absorbing power.
- 2. A radio-conductive material as defined in Claim 1 in which the inorganic material is bismuth iodide.
  - 3. A radio-conductive material as defined in Claim 1 in which the alcohol-soluble nylon is composite material of nylon 6 and nylon 66.
  - 4. A radio-conductive material as defined in Claim 1 in the form of a nano-composite.
  - 5. A method of manufacturing radio-conductive material comprising the steps of dissolving alcohol-soluble nylon and inorganic material having radiation absorbing power in alcohol, and evaporating the alcohol to obtain high-viscosity composite material.
  - 6. A solid sensor having a radio-conductive layer formed of a radio-conductive material defined in Claim 1.
- 7. A radio-conductive material represented by the
   20 following formula (I),

 $BiI_3/x\cdot MX/y\cdot nylon \cdots (I)$ ,

wherein M represents at least one alkali metal selected from the group consisting of Li, Na, K, Rb and Cs, X represents at least one halogen selected from the group consisting of F, Cl, Br and I, and x and y respectively represent the ratios by weight of MX and nylon to BiI<sub>3</sub>, x being  $0 < x \le 1$ , and y being  $0 < y \le 4$ .

- 8. A radio-conductive material as defined in Claim 7 in the form of a nano-composite.
- 9. A radio-conductive material as defined in Claim 7 in which the nylon in formula (I) is alcohol-soluble.
- 5 10. A radio-conductive material as defined in Claim 9 in which the alcohol-soluble nylon is composite material of nylon 6 and nylon 66.
  - 11. A radio-conductive material as defined in Claim 7 in which the alkali halide represented by MX in formula (I) is alcohol-soluble.
  - 12. A radio-conductive material as defined in Claim 7 in which the alkali halide represented by MX in formula (I) is potassium.
- 13. A radio-conductive material as defined in Claim 7
  15 in which the alkali halide represented by MX in formula (I)
  is potassium fluoride
  - 14. A radio-conductive material as defined in Claim 7 in which  $0 < x \le 0.2$ .
- 15. A radio-conductive material as defined in Claim 7 20 in which  $0.1 < y \le 1$ .
  - 16. A solid sensor having a radio-conductive layer formed of a radio-conductive material defined in Claim 7.
  - 17. A method of manufacturing a radio-conductive film of an inorganic/organic composite radio-conductive material comprising the step of pressing the inorganic/organic composite radio-conductive material.

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- 18. A method as defined in Claim 17 in which the inorganic/organic composite radio-conductive material is pressed at an elevated temperature.
- 19. A method as defined in Claim 18 in which the elevated 5 temperature is in the range of 50°C to 200°C.
  - 20. A method as defined in Claim 17 in which the inorganic/organic composite radio-conductive material is pressed at not higher than  $50 \, \text{Kg/cm}^2$ .
- 21. A method as defined in Claim 17 in which the 10 inorganic/organic composite radio-conductive material is Bil3/nylon.
  - 22. A method of manufacturing a radio-conductive film of an inorganic/organic composite radio-conductive material comprising the step of heating a film of inorganic/organic composite radio-conductive material.
  - 23. A method as defined in Claim 22 in which the elevated temperature is in the range of  $50^{\circ}\text{C}$  to  $200^{\circ}\text{C}$ .
  - 24. A method as defined in Claim 22 in which the inorganic/organic composite radio-conductive material is BiI<sub>3</sub>/nylon.
  - 25. A solid sensor comprising a radio-conductive layer formed of inorganic/organic composite material and an electrode provided on the radio-conductive layer, wherein the improvement comprises that
- 25 the electrode is of indium.
  - 26. A solid sensor as defined in Claim 25 in which the

inorganic/organic composite material is bismuth iodide/nylon composite material.

- 27. A solid sensor as defined in Claim 25 in which the nylon is soluble to alcohol.
- 28. A radiation image read-out apparatus comprising a solid sensor defined in Claim 25 and a read-out means for reading out a radiation image recorded on the solid sensor as a latent radiation image.